



# 5' x 13' Chicken Coop Plan

Up to 8 chickens



# **Compare Free vs. Premium plan**

	Free plan	Premium edition
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Illustrations for Each Step	<ul> <li>Image: A start of the start of</li></ul>	<ul> <li>✓</li> </ul>
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Step By Step Instructions	<b></b>	<ul> <li>✓</li> </ul>
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Tools List	$\mathbf{x}$	<b></b>
Fastening Elements List	8	<b></b>
Technical Support	•	<b></b>

TRY PREMIUM

## 5'x13' chicken coop material list

#### **Site Preparation**

- Concrete
- Bricks

#### **Bottom Frame**

- Pressure-Treated Lumber
- Plywood

#### **Walls Frames**

• Pressure-Treated Lumber

#### Shed's Roof

- Pressure-Treated Lumber
- Pressure-Treated Board
- Plywood
- Building paper
- Asphalt shingles
- Metal drip edge

#### Front/Side Shed's Window

- Pressure-Treated Lumber
- Window beading
- Glass

#### **Walls Exterior Siding**

- Pressure-Treated Lumber
- Wood siding boards

#### **Top Frame**

• Pressure-Treated Lumber

#### **Fasteners & Hardware**

- Corner braces
- Galvanized nails
- Wood screws



# Size & Dimensions

front





# Interior view



#### Framing the Coop's Bottom Frame

**1.1** Assemble the frame using  $1 \frac{1}{2} \times 3 \frac{1}{2}$  pressure-treated lumber. You will need two boards cut to 10'-6" that will be the rim joist and four boards cut to 3'-9" that will be the joist. Provide cuttings in long beams for half lap connection according to the node A on page 14.

1.2 Secure the beams with 2" wood screws.



### **Assemble the Main Frame**

**2.1** Using 1 1/2" x 3 1/2" pressure-treated lumber, provide the wall studs using the drawing below as a reference. You will need eight boards cut to 5'-7". Provide cuttings on both ends for half lap connection according to the drawings on the next page.

2.2 Secure the beams to the bottom frame with 2" wood screws.



### **Assemble The Top Beams**

**3.1** Assemble the top beams using  $1 \frac{1}{2} \times 3 \frac{1}{2}$  pressure-treated material. You will need two boards cut to 10'-6' according to the nodes **A** on page 14 and three boards cut to 3'-9". To connect top beams between themselves use half lap connection.

**3.2** Secure the beams to the studs with 3" wood screws.



### **Assemble The Floor Frame**

**4.1** Using  $1 \frac{1}{2} \times 3 \frac{1}{2}$  pressure-treated material, cut joists to assemble the floor frame using the illustrations below as a reference. You will need two boards cut to 3'-5" and four boards cut to 3'-9".

**4.2** Connect the beams with 3" wood screws.



#### **Assemble Left Wall Frame**

**5.1** Using  $1 \frac{1}{2} \times 1 \frac{1}{2}$  and  $1 \frac{1}{2} \times 3 \frac{1}{2}$  pressure-treated lumber, construct left wall frame using the drawing below as a reference. You will need two boards cut to 1' and three boards cut to 1'-4  $\frac{1}{2}$  that will be studs and one board cut to 3'-9" that will be horizontal girt.

5.2 Connect the beams with 3" and 5" wood screws.



### **Assemble Back Wall Frame**

**6.1** Using 1 1/2" x 3 1/2" pressure-treated lumber, construct back wall frame using the drawing below as a reference. You will need two boards cut to 2'-1 3/4" that will be studs, two boards cut to 1'-4" that will be window header and rough sill and one board cut to 3'-5" that will be the bottom beam.

6.2 Connect the beams with 5" wood screws.



### **Assemble Front Wall Frame**

**7.1** Using  $1 \frac{1}{2} \times 1 \frac{1}{2}$  and  $1 \frac{1}{2} \times 3 \frac{1}{2}$  pressure-treated lumber, construct front wall frame using the drawing below as a reference. You will need two boards cut to 2'-4  $\frac{1}{2}$  that will be studs and one board cut to 3'-5" that will be the door header.

7.2 Connect the beams with 3" and 5" wood screws.



#### **Assemble Right Wall Frame**

**8.1** Using  $1 \frac{1}{2} \times 1 \frac{1}{2}$  and  $1 \frac{1}{2} \times 3 \frac{1}{2}$  pressure-treated lumber, construct right wall frame using the drawing below as a reference. You will need two boards cut to 2'-8" that will be studs and two boards cut to 1'-4" that will be chicken door header and bottom beam.

8.2 Connect the beams with 3" and 5" wood screws.



#### **Assemble the Roof Frame**

**9.1** Using 1 1/2" x 3 1/2" pressure-treated lumber, cut eighteen rafters 3'-4 3/4" long according to the dimensions in drawings below.

**9.2** Using 1 1/2" x 3 1/2" pressure-treated lumber, cut seven collar ties 2' long according to the dimensions in drawings below.

**9.3** Using  $1 \frac{1}{2} \times 3 \frac{1}{2}$  pressure-treated board, cut six boards to  $1'-2 \frac{1}{2}$  long, one 1'-1'' long and one 1'-1/2'' long that will be ridge boards according the illustration below.

9.4 Connect the beams with 3" and 5" wood screws.



### **Nesting Box Frame Assembly**

**10.1** Using 1 1/2" x 1 1/2" pressure-treated lumber, assemble the frame for the nesting box using the illustrations below as a guide. You will need two boards cut to 4' and five boards cut to 10 1/2" that will be front girts, two boards cut to 1'-1" and two boards cut to 10 1/2" that will be top girts, two boards cut to 1'-2 1/2" that will be cross braces and four boards cut to 10 1/2" that will be bottom girts.

**10.2** Make sure to provide slope for the lid of the nesting box.



### **Assemble the Coop's Roof Fascias**

**11.1** Using 3/4" x 3 1/2" pressure-treated lumber, prepare four roof fascias 5'-2 3/4" long and four fascias 5'-3 1/4" long. Install them with 2" wood screws to the rafters from the front wall and back wall.



### **Assemble and Install Front Door**

You will need two assemble two doors.

**12.1** Build the door frame using  $1 \frac{1}{2} \times 3 \frac{1}{2}$  pressure-treated lumber and secure with 5" wood screws. You will need two boards cut to 2'-4" that will be the vertical girts, two boards cut to 1'-1  $\frac{3}{4}$ " that will be the horizontal girts and one board cut to 2'-2  $\frac{1}{2}$ " that will be cross brace.

**12.2** Prepare two 5/8" plywood sheets with dimensions 1'-6  $3/4" \ge 2'-4"$  for the inner and outer door sheathing according to the drawing.

**12.3** Cut sheets of 1" foam board insulation for the inner door sheathing. You will need to cut one  $1'-1 3/4" \times 1'-6 3/4"$  sheet and divide it diagonally.

**12.4** Use 3/4" x 1 1/2" pressure-treated lumber for the door trim and fasten with 2" wood screws. You will need two boards cut to 2'-4" and two boards cut to 1'-3 3/4".

**12.5** To prepare starter course, cut one 3/4" wide strip 1'-3 3/4" long from the top edge of the siding board. Install it according to the node E on page 37 to hold the bottom of the first siding board away from the wall.

**12.6** For the exterior siding on the door, use  $1/2" \times 6"$  wood siding boards and the illustration below as a reference. Assemble siding shields with 2" galvanized nails.

**12.7** Install four 3" door hinges using 6x1" wood screws.

Finish the doors installation by attaching two 6" doorhandles (see nodes L, M).



### **Coop's Roof Sheathing Installation**

**13.1** You will need 34 Sq Ft of building paper and asphalt shingle roofing.

**13.2** Cover the plywood and drip edge with building paper. Try to install sheets with 1" overlapping. Use 2" nails to secure the sheets.

**13.3** Install asphalt shingle roofing using an industrial stapler.



### **Assemble and Install Window**

**14.1** Using  $1 \frac{1}{2} \times 1 \frac{1}{2}$  pressure-treated lumber, assemble the outer frame for the window as shown in the drawing below. You will need four boards cut to 1'-3  $\frac{1}{2}$  that will be the vertical and horizontal girts. Cut the recesses in each beam for splicing connection and mill a recess for the glass.

**14.2** Prepare and install 1'-1 1/4" x 1'-1 1/4" glass into inner frame groove and fasten it by window beading from four sides. Use 1/2" galvanized nails.

**14.3** Insert window into wall openings and connect them with 3" wood screws to the wall beams.





# **Mesh Wall Installation**

**15.1** Cover the walls with 1/4" wire mesh with the help of industrial stapler. You will need 142 sq ft.



### **Assemble The Litter Tray**

**16.1** Assemble the litter tray using  $3/4" \times 1 1/2"$  and  $3/4" \times 2 1/2"$  pressure-treated material and 5/8" plywood. You will need two boards cut to 3'-10 1/2", one board cut to 3'-4 1/2" and one board cut to 3'-3". Assemble the frame and put one  $3'-4 1/2" \times 3'-10 1/2"$  sheet of plywood at the bottom. Finish the tray installation by attaching two 6" door handles.

**16.2** Connect the beams and plywood with 2" wood screws.



## **Assemble The Roost**

**17.1** Assemble the roost using  $1 \frac{1}{2} \times 1 \frac{1}{2}$  pressure-treated material. You will need three boards cut to  $3'-7 \frac{3}{4}$ ".

**17.2** Connect the beams to the walls with 2" wood screws.

**17.3** Install the roosts at the studs with the help of 3" screws.



#### **Installation of the Wheels**

**18.1** Using  $1 \frac{1}{2} \times 3 \frac{1}{2}$  pressure-treated lumber, assemble the wheel's frame using the illustrations below as a guide. You will need two boards cut to 1'-8" that will be vertical girts and two boards cut to 4'-3" that will be joists. Drill the holes from both sides for the wheel's axle and threaded rods.

**18.2** Install two 18" wheels to the frame bottom with the help of metal threaded stud, other side connect to the main frame with the help of shorter threaded studs or bolts.

**18.3** To get the coop ready to move, lift it up and push the wheel frame so it became upright. Tightened fixing bolts do not allow the wheels to return to their original position.



### **Assemble The Chicken Handle**

**19.1** Using  $1 \frac{1}{2} \times 3 \frac{1}{2}$  pressure-treated lumber, cut two handle bars 4'-11" long according to the dimensions in drawing below. Drill the hole for the  $\frac{3}{4}$  tube.

**19.2** Connect the beams to the main frame with 3" wood screws.

**19.3** Insert the 3/4" tube 4'-3" long into the bar's holes .



#### **Install the Ventilation Louver**

**20.1** To install the ventilation louver to the right wall, cut a 4 1/2" diameter hole in the top of wall through the outer sheathing, insulation and inner sheathing.

20.2 Insert the 4" ventilation pipe to isolate the inner space between walls.

**20.3** Fix the louvers to the outer and inner walls, completely overlaying the opening.

**20.4** To install the ventilation louver to the left wall, cut a 5 3/4" x 11 1/4" opening in the top of wall through the outer sheathing, insulation and inner sheathing.

**20.5** To isolate the inner space between walls prepare two 2 3/4" x 11 1/4" sheets and .two 2 3/4" x 4 1/2" sheets of plywood and install them by the perimeter of the opening.

20.6 Fix the two louvers by each side to the outer and inner walls, completely overlaying the opening.





## **Final Touches**

Now that your chicken coop is all done, you are ready to decorate it any way you want using your favorite paint, stain, or preservative.





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